CMA-8
CMA-8CE

SPECIFICATIONS

Camera input	CAMERA/CCU connector, Q type, 14-pin Power output: 13 V, 5 A
Video output	VIDEO OUT connector, BNC type Video 0.7 V (p-p), sync 0.3 V (p-p), 75 ohms, sync negative, unbalanced
Audio output	MIC OUT connector, XLR type
Operating temperature	0°C to 40°C (32°F to 104°F)
Power requirements	120 V ac, 60 Hz (CMA-8) and 110 V, 127 V, 220 V, or 240 V ac, 50/60Hz (CMA-8CE)
Power consumption	95 W
Weight	Approx. 2.8 kg (6 lb 3 oz)
Dimensions	Approx. 105 × 105 × 308 mm (w/h/d) ($4\frac{1}{4}$ × $4\frac{1}{4}$ × $12\frac{1}{8}$ inches) incl. projecting parts and controls

SONY®

SERVICE MANUAL

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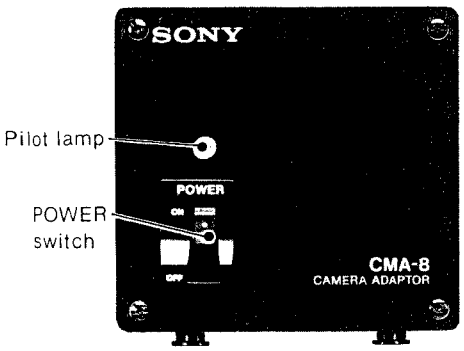
SECTION 1
GENERAL DESCRIPTION

1-1. FEATURES

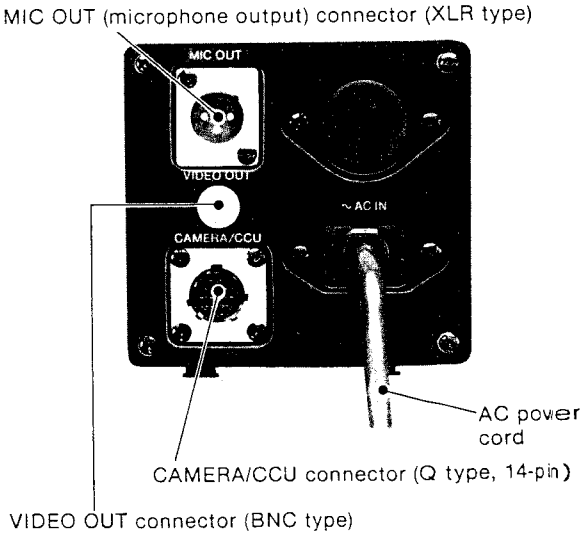
The Sony CMA-8/CMA-8CE camera adaptor is designed to operate a Sony DXC series color video camera, camera control unit or a VTR from a 120 V ac, 60 Hz power line (CMA-8), and 110 V, 127 V, 220 V, or 240 V ac, 50/60 Hz power line (CMA-8CE).

1-2. LOCATIONS

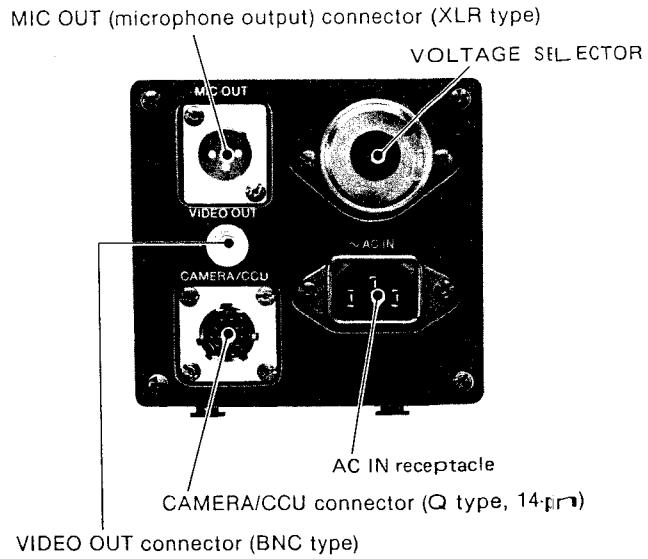
Front panel



Connector panel (CMA-8)

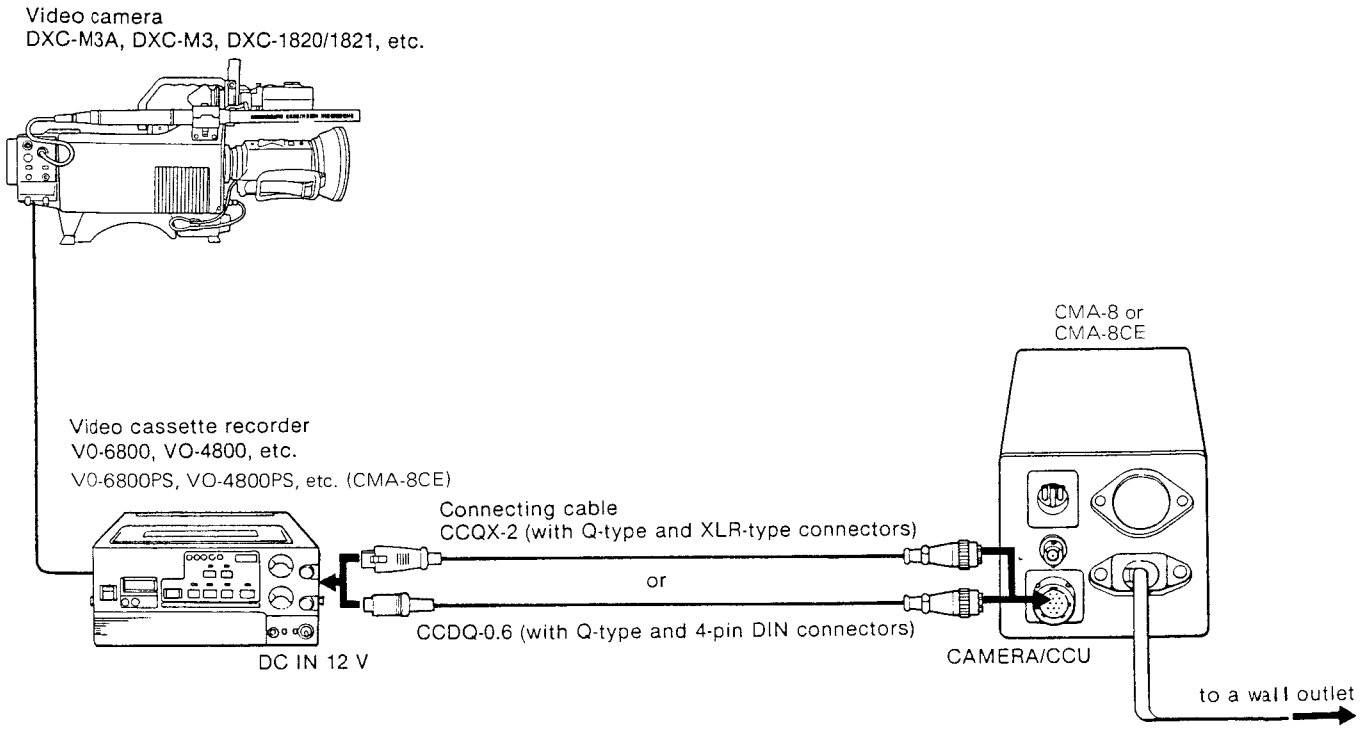


Connector panel (CMA-8CE)

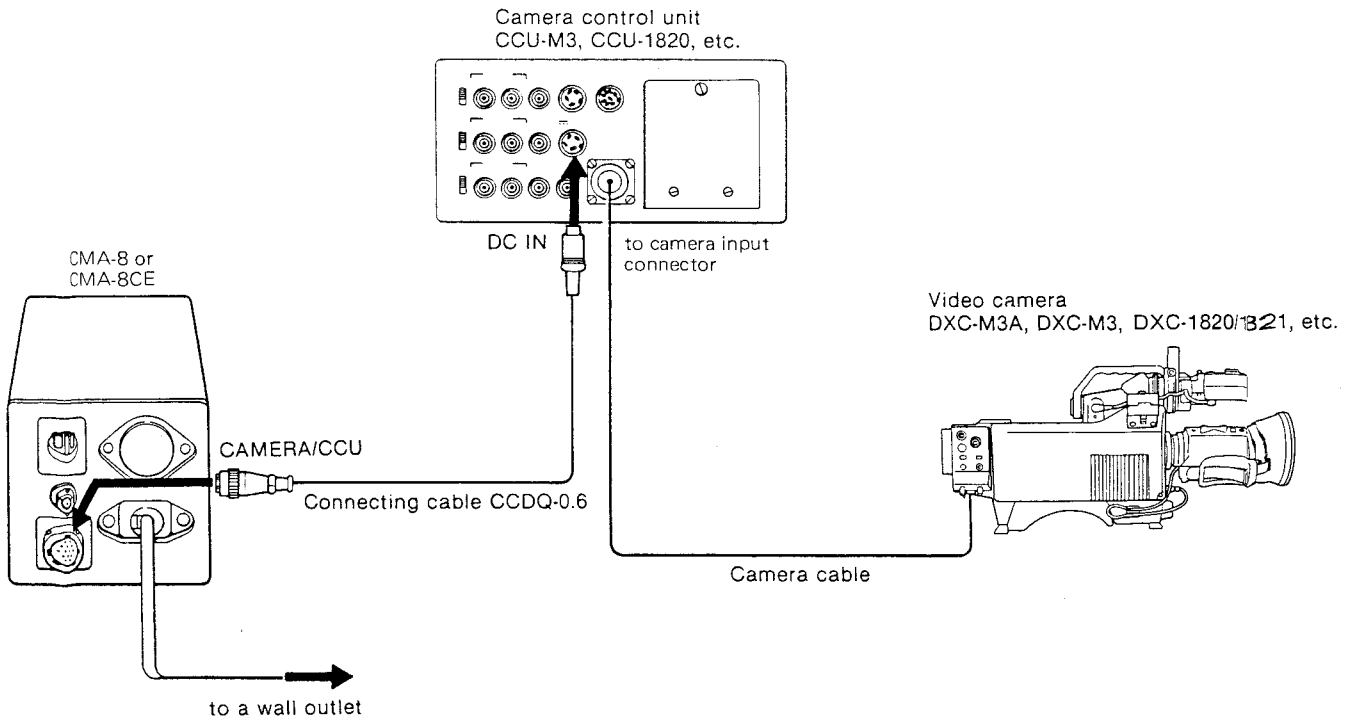


1-3. CONNECTIONS

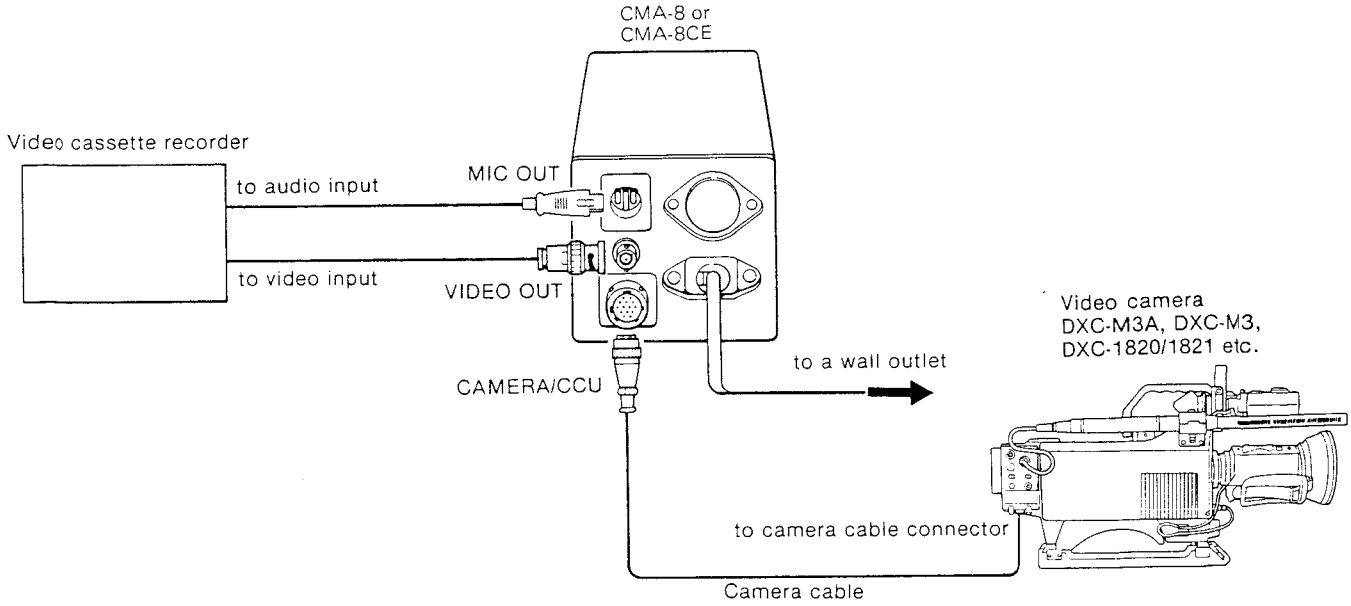
To power a VTR and a camera



To power a CCU and a camera



To power a camera



1-4. OPERATION

1 Turn on the POWER switch of the camera adaptor.
2 Turn on the connected video equipment (video camera, CCU, VTR, etc.).

SECTION 2
SERVICE INFORMATION

2-1. SPARE PARTS

(1) Safety Related Components Warning.
Components identified by shading and marked with ⚠ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation.
Replace these components with the Sony parts whose part numbers appear in this manual or in service bulletins and service manual supplements published by Sony.

(2) Replacement Parts supplied from the Sony Parts Center will sometimes have a different shape from the original parts. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".
This manual's exploded views and electrical spare parts list indicate the part numbers of "the standardized genuine parts at the present". Regarding engineering part changes in out engineering department, refer to Sony service bulletins and service manual supplements.

(3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts list are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

SECTION 3
ELECTRICAL ALIGNMENT

[Required equipment]

- DC voltmeter
- DC currentmeter (20A)

3-1. DC 13 V OUTPUT VOLTAGE ADJUSTMENT

Conditions for adjustment	Specifications	Adjustment
• Disconnect all the connectors on the connector panel. • Connect the DC voltmeter as follows: (+) terminal: 2 pin/CN2 (CAMERA/CCU) connector (–) terminal: 1 pin/CN2 (CAMERA/CCU) connector • Turn POWER ON.	(+): 2 pin/CN2 (CAMERA/CCU) connector (–): 1 pin/CN2 (CAMERA/CCU) connector 13 V ± 0.05 Vdc	⊘ RV1/403-B

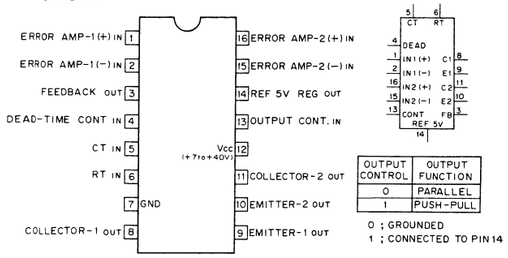
3-2. LIMITER ADJUSTMENT

Conditions for adjustment	Specifications	Adjustment
• Disconnect all the connectors on the connector panel. • Connect the DC currentmeter as follows: (+) terminal: 2 pin/CN2 (CAMERA/CCU) connector (–) terminal: 1 pin/CN2 (CAMERA/CCU) connector • Turn POWER ON.	(+): 2 pin/CN2 (CAMERA/CCU) connector (–): 1 pin/CN2 (CAMERA/CCU) connector 11.5 A ~ 12.0 A Note: Measure the dc voltage within 4 sec. after POWER ON. (4 sec. later, the dc voltage is cut off.)	⊘ RV2/403-B

SECTION 4
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

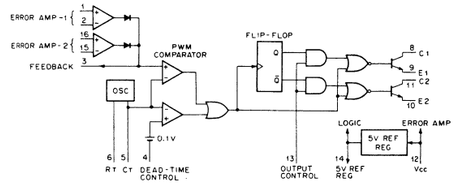
SEMICONDUCTOR ELECTRODES

IR9494 (SHARP)
M83759 (FUJITSU)
PWM POWER CONTROL
— TOP VIEW —

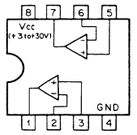


OUTPUT CONTROL	OUTPUT FUNCTION
0	PARALLEL
1	PUSH-PULL

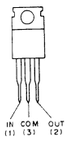
0 ; GROUNDED
1 ; CONNECTED TO PIN 14



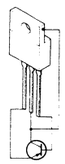
uPC358C (NEC)
DUAL OPERATIONAL AMPLIFIERS
— TOP VIEW —



uPC78M ? ?H (NEC)
POSITIVE VOLTAGE REGULATOR (0.5A)



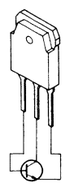
μPC78M12H



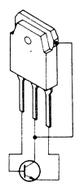
2SA1012-O
2SA1012-Y

2SA1015
2SA733
2SA733-P

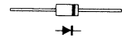
2SA1020



2SC3318

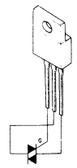


2SC3320

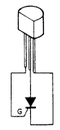


10DF6
1S1587
ERB44-??

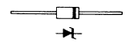
10DL2C41
C10P20F-3A



BCR6AM12A-8



CR02AM-8

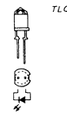


RD??EB

BOTTOM VIEW

S4VB60

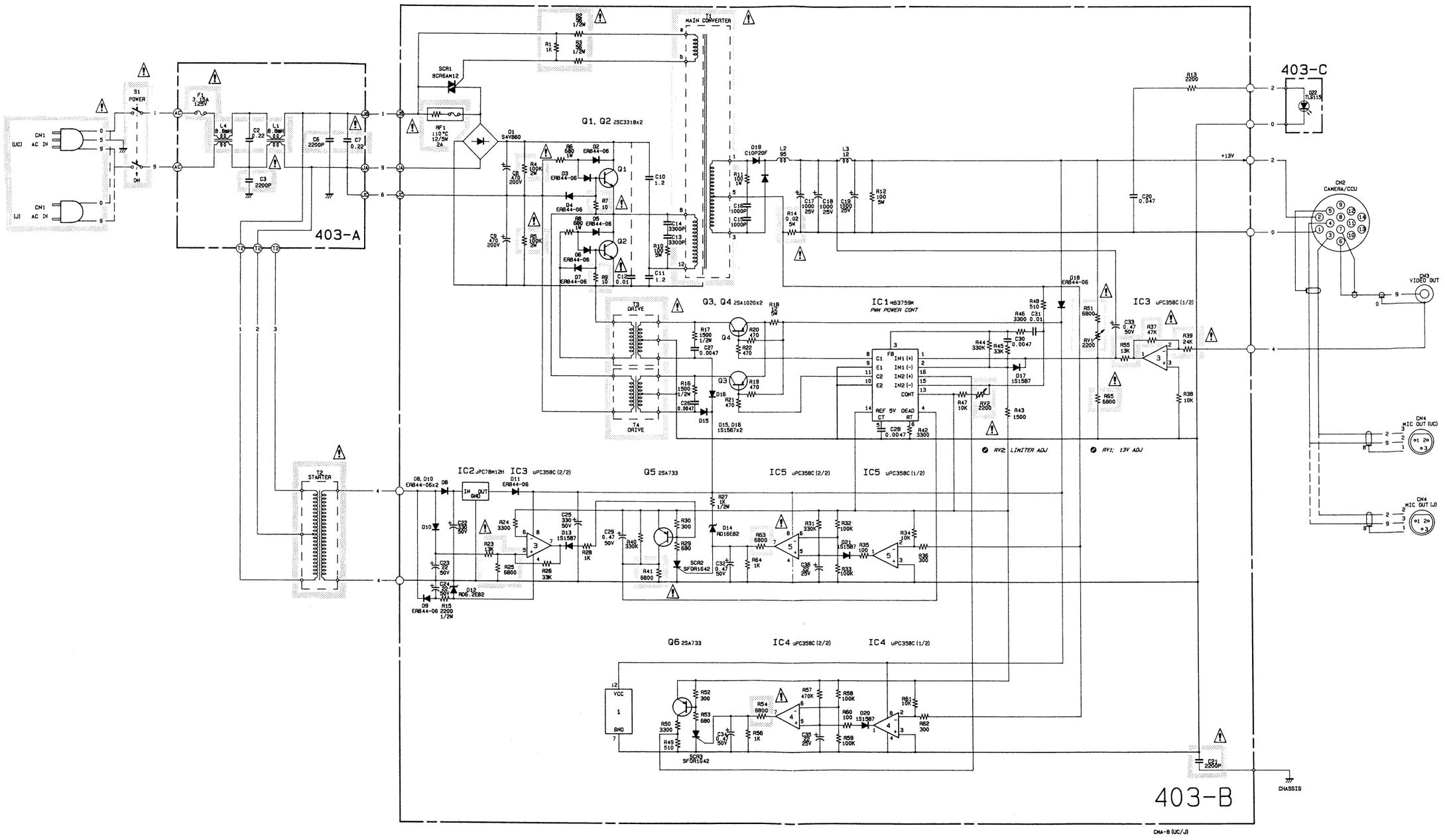
SFOR1G42



TLG115A; GREEN

CMA-8 (UC)

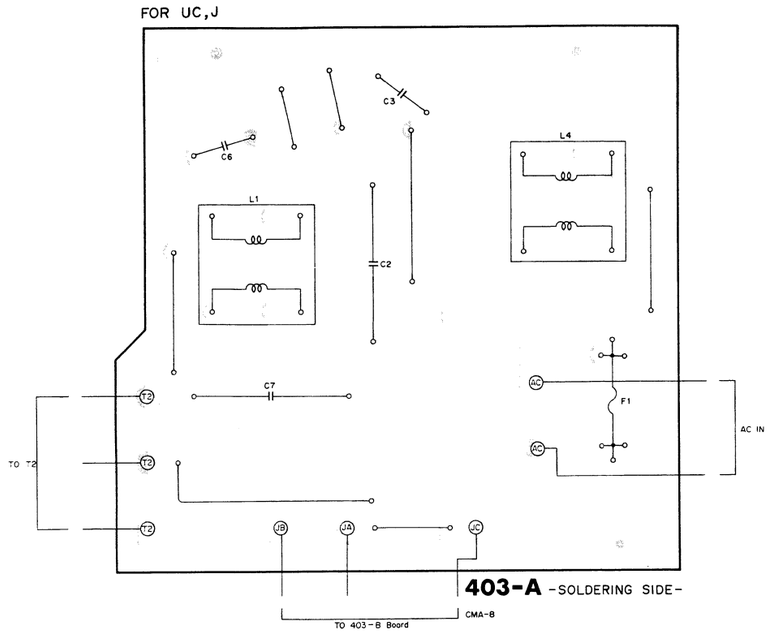
403-A
403-B
403-C



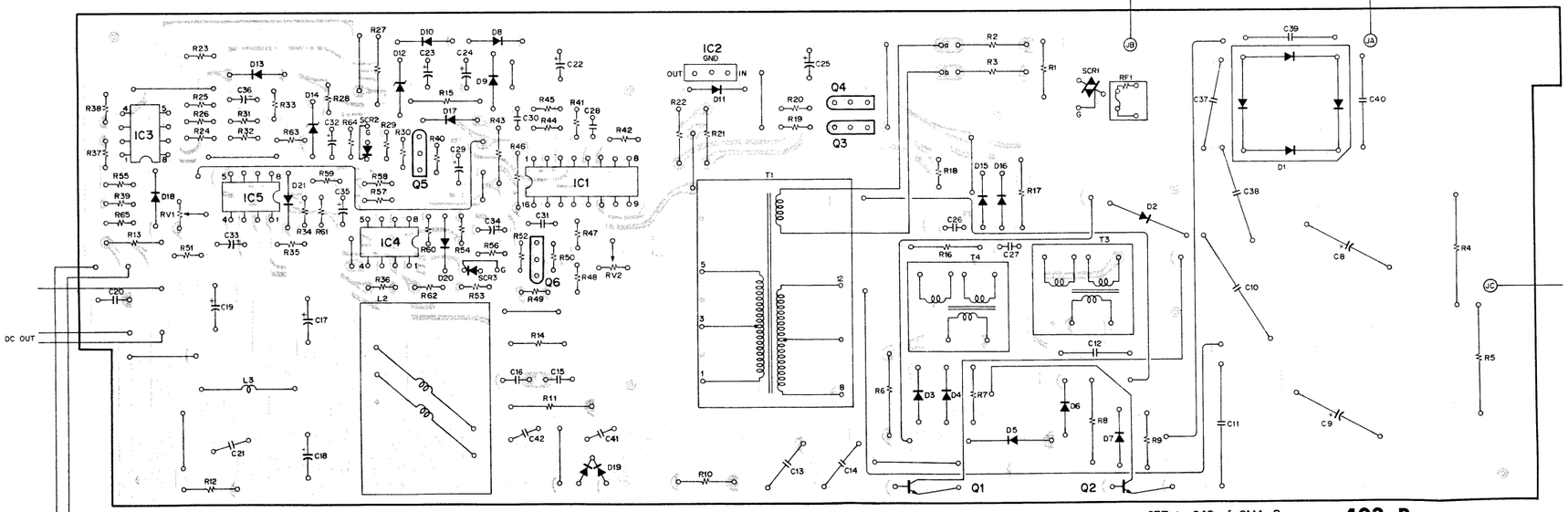
NOTE: **The shaded and ⚠-marked components are critical to safety.**
Replace only with same components as specified.

CMA-8 (UC/J)

CMA-8
403-A
403-B
403-C



403-A -SOLDERING SIDE-



C37 to C42 of CMA-8 is NO MOUNT.

403-B -SOLDERING SIDE-

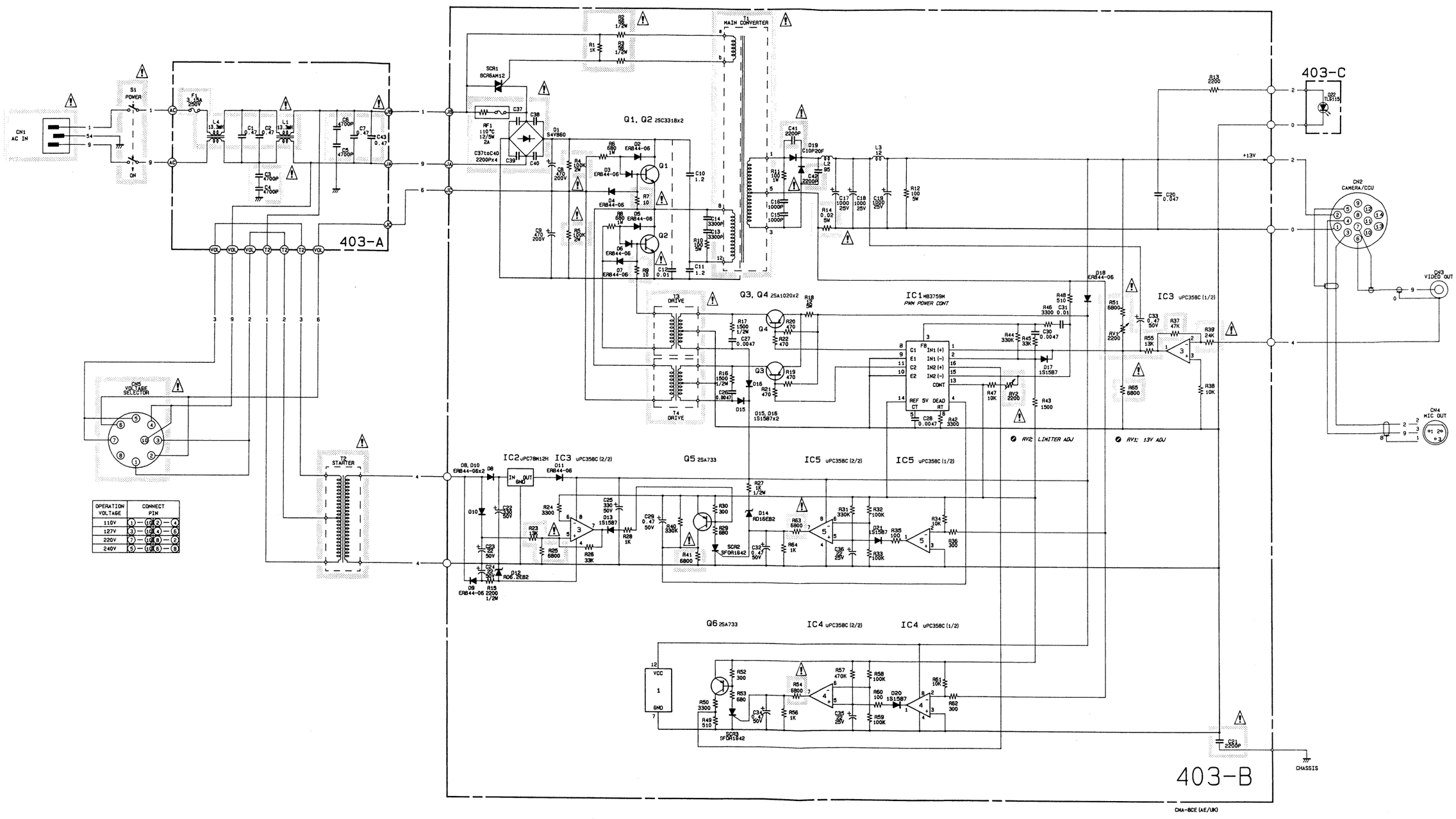
CMA-8
CMA-8CE

403-C -SOLDERING SIDE-

CMA-8
CMA-8CE

CMA-8CE (AE/UK)

403-A
403-B
403-C

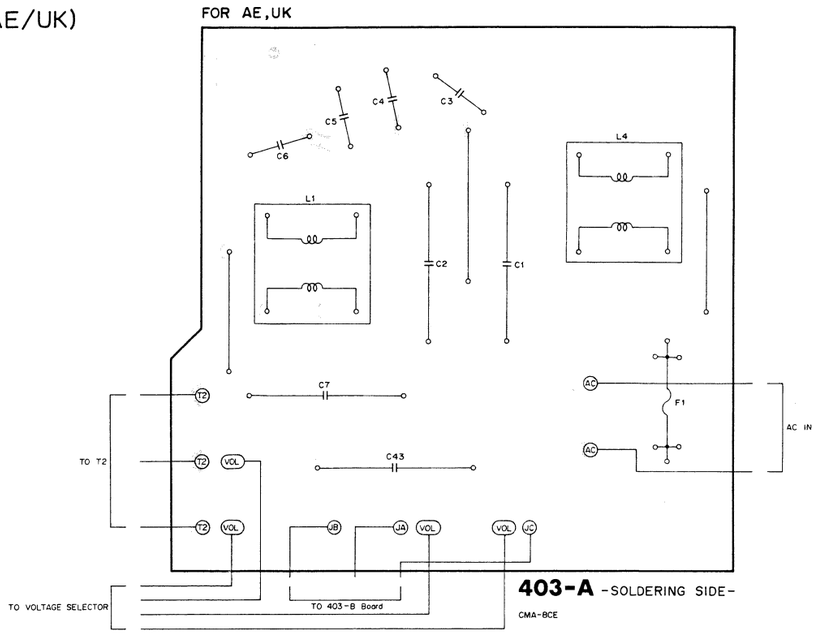


OPERATION VOLTAGE	CONNECT PIN
110V	(1) — (10) (2) — (4)
127V	(3) — (10) (4) — (6)
220V	(7) — (10) (8) — (2)
240V	(5) — (10) (6) — (8)

NOTE: The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

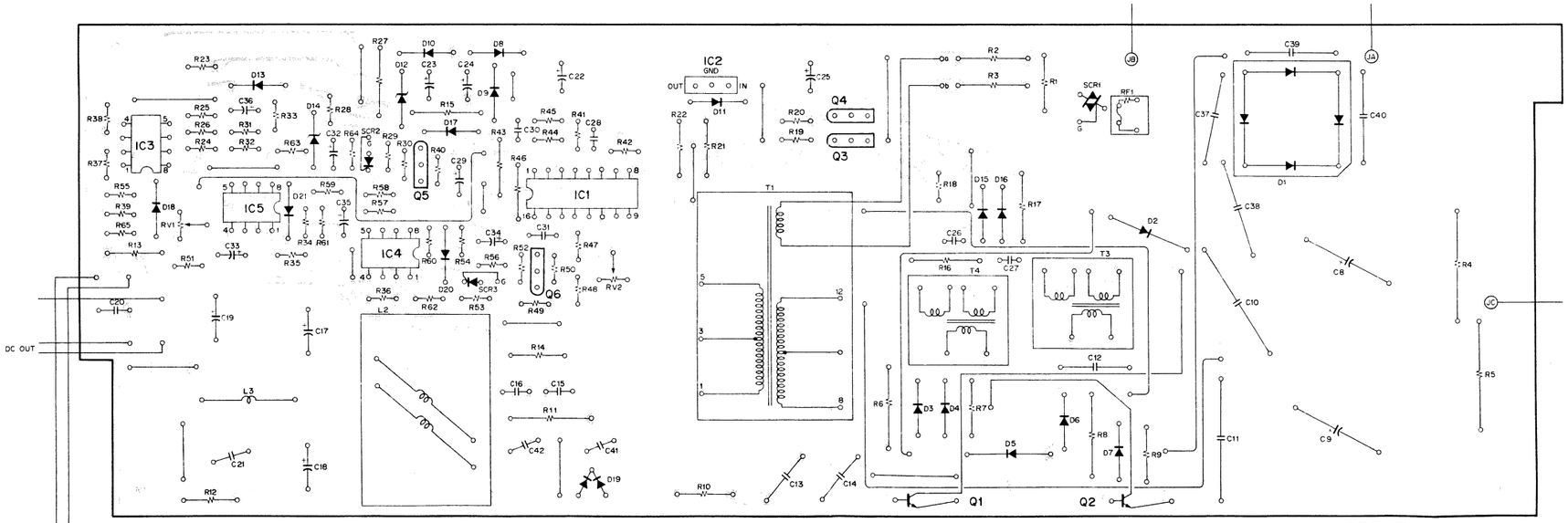
CMA-8CE (AE/UK)

403-A
403-B
403-C



403-A -SOLDERING SIDE-

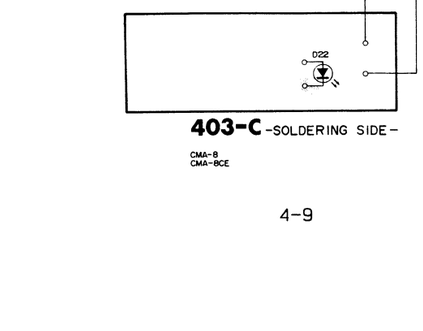
CMA-8CE



C37 to C42 of CMA-8 is NO MOUNT.

403-B -SOLDERING SIDE-

CMA-8
CMA-8CE



403-C -SOLDERING SIDE-

CMA-8
CMA-8CE

SECTION 5
SPARE PARTS

5-1. PARTS INFORMATION

(1) Safety Related Components Warning.
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(3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts list are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Item with no part number and/or no description are not stocked because they are seldom required for routine service.

(5) (T) after a spring description is shown on the exploded views in order to indicate the number of a spring turn required for the use.
(Example)
Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

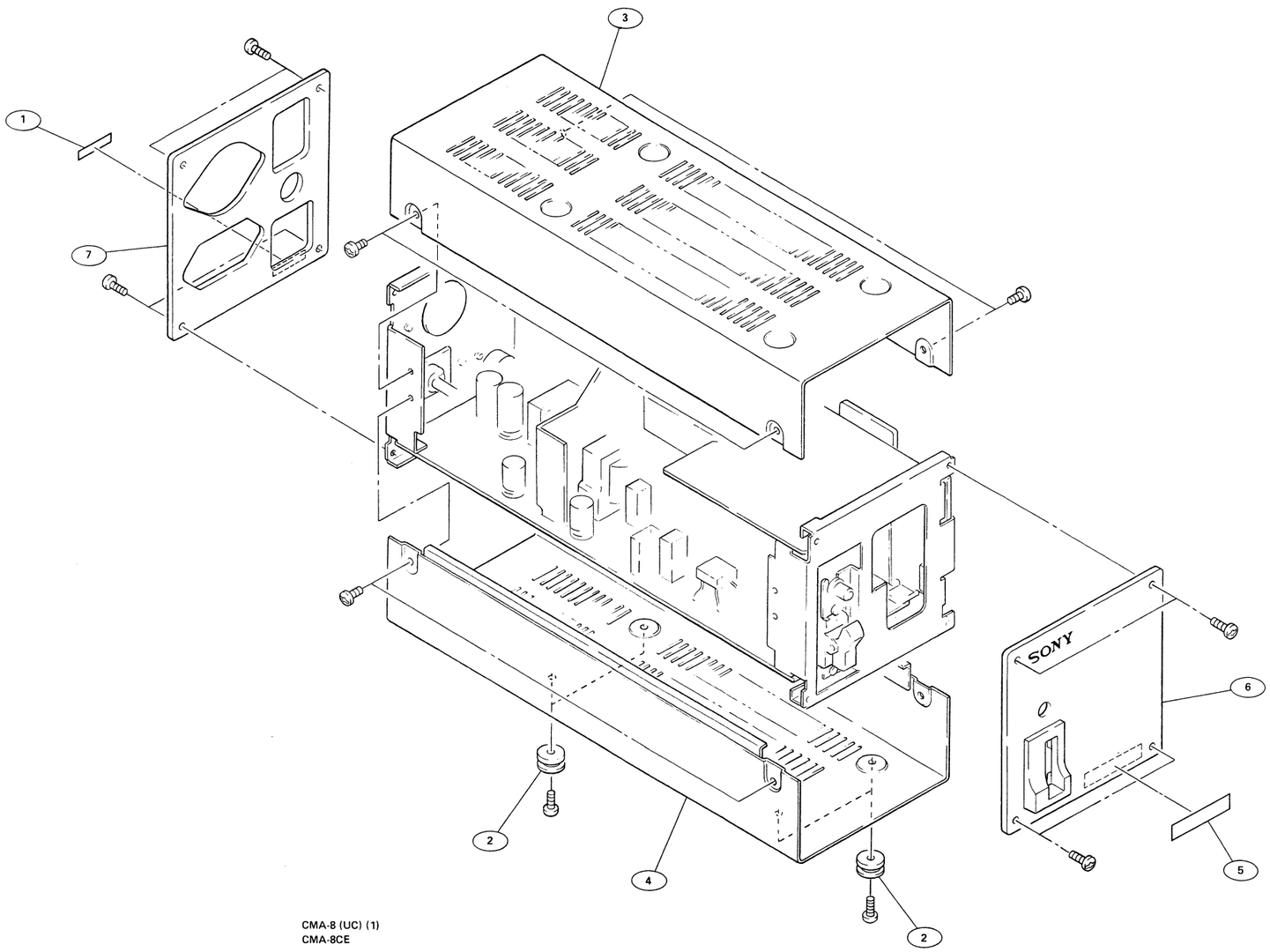
5-2. EXPLODED VIEW

. Exploded views are composed of the following blocks.

(1) Cabinet Block
ornamental panel

(2) Chassis Block
printed circuit board
connector panel
chassis

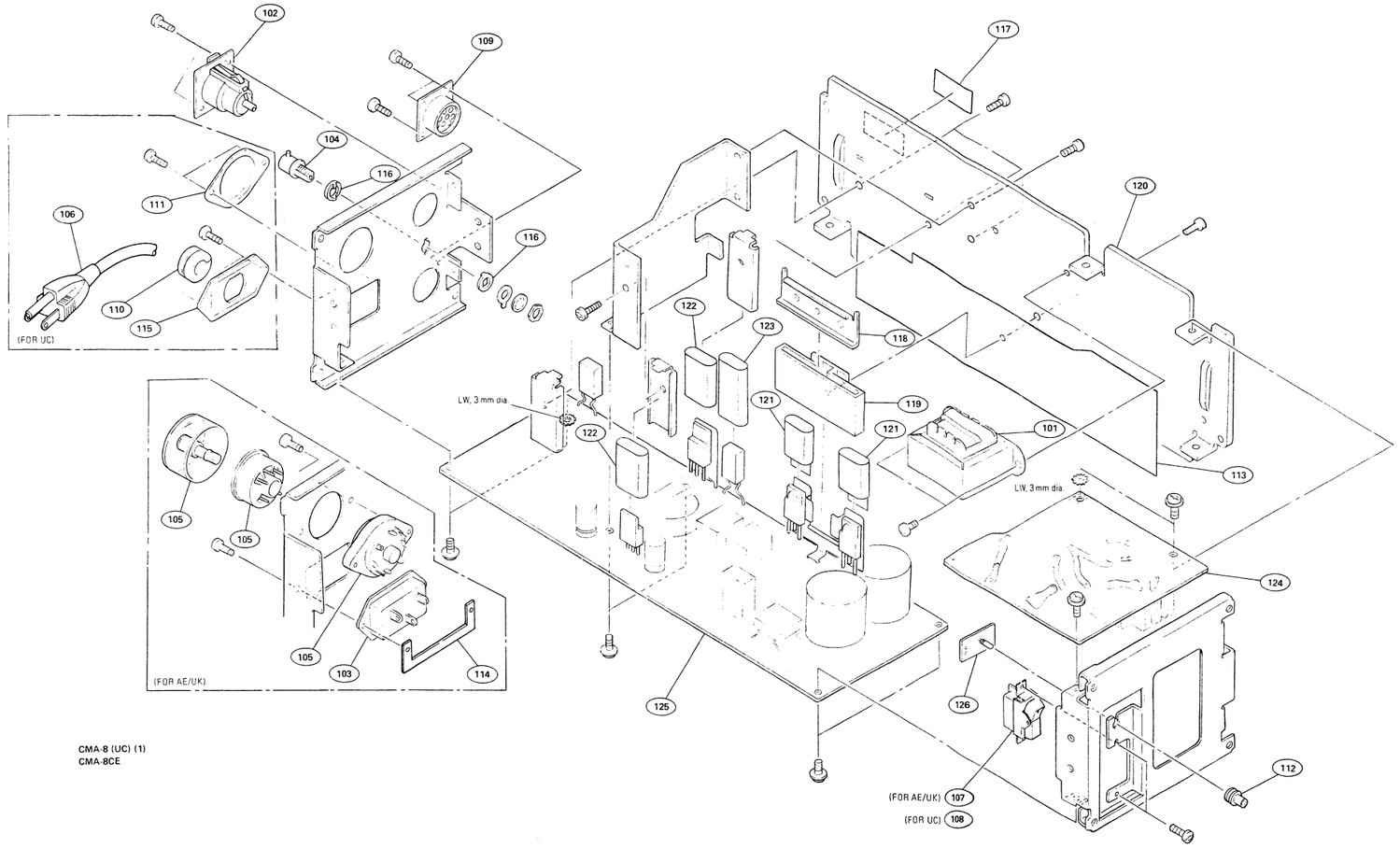
Cabinet Block



CMA-8 (UC) (1)
CMA-8CE

No.	Parts No.	SP	Description
1	2-253-329-00	o	LABEL (14P), POLARITY
2	2-279-001-00	o	FOOT
3	2-279-006-00	o	COVER, UPPER
4	2-279-007-00	o	COVER, LOWER
5	3-701-690-00	o	LABEL, MADE IN JAPAN (FOR AE/UK)
6	9-984-952-01	o	FRONT PANEL
7	9-984-953-01	o	REER PANEL

Chassis Block



CMA-8 (UC) (1)
CMA-8CE

No.	Parts No.	SP	Description
⚠ 101	1-448-056-11	s	TRANSFORMER
102	1-509-176-31	s	RECEPTACLE 3P
⚠ 103	1-509-547-00	s	3P INLET (FOR AE/UK)
104	1-509-891-00	s	RECEPTACLE, BNC
⚠ 105	1-526-572-00	s	SOCKET, POWER VOLTAGE SELECT (FOR AE/UK)
⚠ 106	1-534-517-41	s	CORD, AC (FOR UC)
107	1-553-159-00	s	SWITCH ROCKER (FOR AE/UK)
108	1-553-515-00	s	SWITCH ROCKER (AC POWER) (FOR UC)
109	1-561-040-00	s	RECEPTACLE, 14P (F)
⚠ 110	2-045-063-00	s	STOPPER, CORD (FOR UC)
111	2-228-109-00	o	LID, MASKING (FOR UC)
112	2-241-825-00	o	HOLDER, LAMP
113	2-394-206-01	o	SHEET (SARCON A), INSULATING
114	3-625-620-00	o	BRACKET, AC CONNECTOR (FOR AE/UK)
115	3-648-311-12	o	BRACKET (USA), AC CORD (FOR UC)
116	3-654-545-00	s	SPACER, BNC
117	3-703-044-26	o	LABEL, CAUTION (FOR UC)
118	4-886-820-00	o	RETAINER
119	4-886-830-00	o	RETAINER, TRANSISTOR
120	9-984-954-01	o	HEAT SINK (A)
121	9-984-955-01	s	SHEET (SARCON B), INSULATING
122	9-984-956-01	s	SARCON TUBE
123	9-984-957-01	s	SARCON TUBE
124	9-984-960-01	o	PRINTED CIRCUIT BOARD, 403-A
⚠ 125		o	MOUNTED CIRCUIT BOARD, 403-B (FOR UC)
		o	MOUNTED CIRCUIT BOARD, 403-B (FOR AE)
		o	MOUNTED CIRCUIT BOARD, 403-B (FOR UK)
126		o	MOUNTED CIRCUIT BOARD, 403-C

5-3. ELECTRICAL PARTS LIST

ABBREVIATIONS

Ref. No.	Description	Ref. No.	Description	Ref. No.	Description
C□□, CV□□	CAPACITOR	IC□□	IC	Q□□	TRANSISTOR
CF□□	CERAMIC FILTER	J□□	JACK	R□□, RV□□	RESISTOR
CN□□	CONNECTOR	L□□	INDUCTOR	RY□□	RELAY
D□□	DIODE	M□□	MOTOR	S□□, SW□□	SWITCH
DL□□	DELAY LINE	ME□□	METER	SB□□	SOLAR BATTERY
F□□	FUSE	MIC□□	MICROPHONE	T□□	TRANSFORMER
FB□□	FERRITE BEAD	PG□□	PG COIL	TH□□	THERMISTOR
FL□□	FILTER	PL□□	LAMP	X□□	CRYSTAL
H□□	HEAD	PM□□	SOLENOID		

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

Ref.No. Parts No. SP Description

403-A BOARD

	9-984-960-01	o	PRINTED CIRCUIT BOARD, 403-A
⚠ C1	1-130-712-00	s	FILM 0.47 20% 250V
C2	1-136-323-11	s	METALIZED FILM 0.22 20% 125V (FOR UC)
	1-130-712-00	s	POLYESTER FILM 0.47 20% 250V (FOR AE/UK)
C3	1-161-742-00	s	CERAMIC 2200PF 20% 400V (FOR UC)
	1-161-953-00	s	CERAMIC 4700PF 20% 400V (FOR AE/UK)
C4	1-161-953-00	s	CERAMIC 4700PF 20% 400V (FOR AE/UK)
C5	1-161-953-00	s	CERAMIC 4700PF 20% 400V (FOR AE/UK)
C6	1-161-742-00	s	CERAMIC 2200PF 20% 400V (FOR UC)
	1-161-953-00	s	CERAMIC 4700PF 20% 400V (FOR AE/UK)
C7	1-136-323-11	s	METALIZED FILM 0.22 20% 125V (FOR UC)
	1-130-712-00	s	POLYESTER FILM 0.47 20% 250V (FOR AE/UK)
C43	1-130-712-00	s	POLYESTER FILM 0.47 20% 250V (FOR AE/UK)
L1	1-421-743-11	s	8.8mH (FOR UC)
	1-421-742-11	s	13.3mH (FOR AE/UK)
L4	1-421-743-11	s	8.8mH (FOR UC)
	1-421-742-11	s	13.3mH (FOR AE/UK)
F1	1-532-557-00	s	GLASS TUBE 125V 3.15A (FOR UC)
	1-532-237-00	s	TIME-LAG 250V 3.15A (FOR AE/UK)

Ref.No. Parts No. SP Description

403-B BOARD

	9-984-	o	MOUNTED CIRCUIT BOARD, 403-B
C8	9-984-939-01	s	ELECT 470 200V
C9	9-984-939-01	s	ELECT 470 200V
C10	1-130-358-00	s	FILM 1.2 10% 250V
C11	1-130-358-00	s	FILM 1.2 10% 250V
C12	1-130-141-00	s	FILM 0.01 20% 630V
C13	9-984-937-01	s	CERAMIC 3300PF 1KV
C14	9-984-937-01	s	CERAMIC 3300PF 1KV
C15	9-984-938-01	s	CERAMIC 1000PF 1KV
C16	9-984-938-01	s	CERAMIC 1000PF 1KV
C17	1-123-606-00	s	ELECT 1000 20% 25V
C18	1-123-606-00	s	ELECT 1000 20% 25V
C19	1-123-606-00	s	ELECT 1000 20% 25V
C20	1-108-595-00	s	MYLAR 0.047 5% 100V
⚠ C21	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C22	1-123-362-00	s	ELECT 330 20% 50V
C23	1-123-371-00	s	ELECT 22 20% 63V
C24	1-123-371-00	s	ELECT 22 20% 63V
C25	1-123-362-00	s	ELECT 330 20% 50V
C26	1-108-234-00	s	MYLAR 0.0047 10% 100V
C27	1-108-234-00	s	MYLAR 0.0047 10% 100V
C28	1-108-234-00	s	MYLAR 0.0047 10% 100V
C29	1-123-379-00	s	ELECT 0.47 20% 100V
C30	1-108-234-00	s	MYLAR 0.0047 10% 100V
C31	1-108-579-00	s	MYLAR 0.01 5% 100V
C32	1-123-379-00	s	ELECT 0.47 20% 100V

Ref.No.	Parts No.	SP	Description
C33	1-123-379-00	s	ELECT 0.47 20% 100V
C34	1-123-379-00	s	ELECT 0.47 20% 100V
C35	1-123-330-00	s	ELECT 22 20% 25V
C36	1-123-330-00	s	ELECT 22 20% 25V
⚠ C37	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C38	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C39	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C40	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C41	9-984-940-01	s	CERAMIC 2200PF 1KV
C42	9-984-940-01	s	CERAMIC 2200PF 1KV
D1	8-719-504-60	s	S4VB60
D2	9-983-884-01	s	10DF6
D3	9-983-884-01	s	10DF6
D4	9-983-884-01	s	10DF6
D5	9-983-884-01	s	10DF6
D6	9-983-884-01	s	10DF6
D7	9-983-884-01	s	10DF6
D8	9-983-884-01	s	10DF6
D9	9-983-884-01	s	10DF6
D10	9-983-884-01	s	10DF6
D11	9-983-884-01	s	10DF6
D12	8-719-100-38	s	RD6.2EB2
D13	8-719-815-87	s	1S1587
D14	8-719-100-74	s	RD16EB2
D15	8-719-815-87	s	1S1587
D16	8-719-815-87	s	1S1587
D17	8-719-815-87	s	1S1587
D18	9-983-884-01	s	10DF6
D19	9-984-946-01	s	C10P20F-3A
D20	8-719-815-87	s	1S1587
D21	8-719-815-87	s	1S1587
IC1	8-759-937-59	s	MB3759 (FUJITSU)
IC2	8-759-170-12	s	uPC78M12H (NEC)
IC3	8-759-135-80	s	uPC358C (NEC)
IC4	8-759-135-80	s	uPC358C (NEC)
IC5	8-759-135-80	s	uPC358C (NEC)
L2	9-984-950-01	s	95
L3	9-984-951-01	s	12
Q1	9-984-942-01	s	2SC3318
Q2	9-984-942-01	s	2SC3318
Q3	8-729-202-45	s	2SA1020
Q4	8-729-202-45	s	2SA1020
Q5	8-729-173-37	s	2SA733-P
Q6	8-729-173-37	s	2SA733-P

Ref.No.	Parts No.	SP	Description
⚠ R1	1-247-155-00	s	NF CARBON 1K 5% 1/4W
R2	1-247-210-00	s	NF CARBON 56 5% 1/2W
R3	1-247-210-00	s	NF CARBON 56 5% 1/2W
R4	1-214-597-00	s	METAL FILM 100K 5% 2W
R5	1-214-597-00	s	METAL FILM 100K 5% 2W
R6	1-212-358-00	s	METAL FILM 0.68 5% 1W
⚠ R7	1-247-083-00	s	NF CARBON 10 5% 1/4W
R8	1-212-358-00	s	METAL FILM 0.68 5% 1W
⚠ R9	1-247-083-00	s	NF CARBON 10 5% 1/4W
R10	9-984-935-01	s	CEMENT 100 5W
R11	1-213-131-00	s	METAL FILM 100 5% 1W
R12	9-984-935-01	s	CEMENT 100 5W
R13	1-246-481-00	s	CARBON 2.2K 5% 1/4W
⚠ R14	1-217-654-11	s	CEMENT 0.02 10% 5W
R15	1-244-881-00	s	CARBON 2.2K 5% 1/2W
R16	1-244-877-00	s	CARBON 1.5K 5% 1/2W
R17	1-244-877-00	s	CARBON 1.5K 5% 1/2W
R18	9-984-936-01	s	CEMENT 12 5W
R19	1-247-823-00	s	CARBON 470 5% 1/6W
R20	1-247-823-00	s	CARBON 470 5% 1/6W
R21	1-247-123-00	s	CARBON 470 5% 1/4W
R22	1-247-123-00	s	CARBON 470 5% 1/4W
⚠ R23	1-247-858-00	s	CARBON 13K 5% 1/6W
R24	1-247-843-00	s	CARBON 3.3K 5% 1/6W
⚠ R25	1-247-851-00	s	CARBON 6.8K 5% 1/6W
R26	1-247-867-00	s	CARBON 33K 5% 1/6W
R27	1-244-873-00	s	CARBON 1K 5% 1/2W
R28	1-247-831-00	s	CARBON 1K 5% 1/6W
R29	1-247-827-00	s	CARBON 680 5% 1/6W
R30	1-247-818-00	s	CARBON 300 5% 1/6W
R31	1-247-819-00	s	CARBON 330K 5% 1/6W
R32	1-247-879-00	s	CARBON 100K 5% 1/6W
R33	1-247-879-00	s	CARBON 100K 5% 1/6W
R34	1-247-855-00	s	CARBON 10K 5% 1/6W
R35	1-247-807-00	s	CARBON 100 5% 1/6W
R36	1-247-818-00	s	CARBON 300 5% 1/6W
⚠ R37	1-247-871-00	s	CARBON 47K 5% 1/6W
R38	1-247-855-00	s	CARBON 10K 5% 1/6W
⚠ R39	1-247-864-00	s	CARBON 24K 5% 1/6W
R40	1-247-819-00	s	CARBON 330K 5% 1/6W
⚠ R41	1-247-851-00	s	CARBON 6.8K 5% 1/6W
R42	1-247-843-00	s	CARBON 3.3K 5% 1/6W
R43	1-246-477-00	s	CARBON 1.5K 5% 1/4W
R44	1-247-819-00	s	CARBON 330K 5% 1/6W
R45	1-247-867-00	s	CARBON 33K 5% 1/6W

Ref.No.	Parts No.	SP	Description
R46	1-246-485-00	s	CARBON 3.3K 1% 1/4W
R47	1-247-855-00	s	CARBON 10K 5% 1/6W
R48	1-247-824-00	s	CARBON 510 5% 1/6W
R49	1-247-824-00	s	CARBON 510 5% 1/6W
R50	1-247-843-00	s	CARBON 3.3K 5% 1/6W
⚠ R51	1-247-851-00	s	CARBON 6.8K 5% 1/6W
R52	1-247-818-00	s	CARBON 300 5% 1/6W
R53	1-247-827-00	s	CARBON 680 5% 1/6W
⚠ R54	1-247-851-00	s	CARBON 6.8K 5% 1/6W
R55	1-247-858-00	s	CARBON 13K 5% 1/6W
R56	1-247-831-00	s	CARBON 1K 5% 1/6W
R57	1-247-895-00	s	CARBON 470K 5% 1/6W
R58	1-247-879-00	s	CARBON 100K 5% 1/6W
R59	1-247-879-00	s	CARBON 100K 5% 1/6W
R60	1-247-807-00	s	CARBON 100 5% 1/6W
R61	1-247-855-00	s	CARBON 10K 5% 1/6W
R62	1-247-818-00	s	CARBON 300 5% 1/6W
⚠ R63	1-247-851-00	s	CARBON 6.8K 5% 1/6W
R64	1-247-831-00	s	CARBON 1K 5% 1/6W
⚠ R65	1-247-851-00	s	CARBON 6.8K 5% 1/6W
⚠ RF1	1-217-660-11	s	12 5W, 110°C 2A
⚠ RV1	1-224-250-XX	s	VAR,METAL 2.2K
RV2	1-224-250-XX	s	VAR,METAL 2.2K
SCR1	9-984-947-01	s	TRIAC BCR6AM12A-8
SCR2	8-719-000-28	s	CR02AM-8
SCR3	8-719-000-28	s	CR02AM-8
⚠ T1	1-448-024-11	s	MAIN
T2	1-448-056-11	s	STARTER
T3	1-437-168-11	s	DRIVE
T4	1-437-168-11	s	DRIVE

403-C BOARD

	9-984-	o	MOUNTED CIRCUIT BOARD,403-C
D22	8-719-820-15	s	TLG115A

Ref.No.	Parts No.	SP	Description

FRAME

⚠ CN1	1-534-517-41	s	AC CORD "AC IN" (FOR UC)
	1-509-547-00	s	AC INLET "AC IN" (FOR AE/UK)
CN2	1-561-040-00	s	RECEPTACLE,14P "CAMERA/CCU"
CN3	1-509-891-00	s	RECEPTACLE,BNC "VIDEO OUT"
CN4	1-509-176-31	s	RECEPTACLE,XLR 3P "MIC OUT"
⚠ CN5	1-526-572-00	s	VOLTAGE SELECTOR (FOR AE/UK)
⚠ S1	1-553-515-00	s	ROCKER "POWER" (FOR UC)
	1-553-159-00	s	ROCKER "POWER" (FOR AE/UK)

5-4. PACKING MATERIAL AND ACCESSORY (SUPPLIED)

Ref.No.	Parts No.	SP	Description
⚠	1-556-760-11	s	AC CORD "AC IN" (FOR AE/UK)
	2-279-022-00	o	CUSHION,LOWER
	2-394-202-01	o	CUSHION,UPPER
	2-394-203-01	o	CARTON,INDIVIDUAL (FOR UC)
	2-394-205-01	o	CARTON,INDIVIDUAL (FOR AE/UK)
	3-701-634-00	s	BAG,POLY(FOR MANUAL)
⚠	3-760-007-21	s	MANUAL,INSTRUCTION (FOR UC)
	3-760-007-11	s	MANUAL,INSTRUCTION (FOR AE/UK)